

CLAIMS

It is claimed:

1. A developer fuser comprising:

a first heating element for transferring energy

a second heating element for transferring energy

a controller, controlling at least one of power to, current through, frequency to, resonance of, inductance of, voltage across, and temperature at the first heating element and the second heating element, for fusing a developer to a media

wherein the at least one of power to, current through, frequency to, resonance of, inductance of, voltage across, and temperature at the first heating element is different in magnitude from the at least one of power to, current through, frequency to, resonance of, inductance of, voltage across, and temperature at the second heating element.

2. The developer fuser of claim 1, wherein the controller is further controlling the at least one of power to, current through, frequency to, resonance of, inductance of, voltage across, and temperature at the first heating element based on a datum from at least one of a first temperature sensor associated with the first heating element, a humidity sensor, a media thickness sensor, a media moisture content sensor, a media temperature sensor, and a developer temperature sensor and is further controlling the at least one of power to, current through, frequency to, resonance of, inductance of, voltage across, and temperature at the second heating element based on a datum from at least one of a second temperature sensor

associated with the second heating element, the humidity sensor, the media thickness sensor, the media moisture content sensor, the media temperature sensor, and the developer temperature sensor.

3. An image forming apparatus comprising the developer fuser of claim 1.

4. A copy machine comprising the developer fuser of claim 1.

5. A controller for a developer fuser adapted to:

receive a media type datum, a first temperature sensor datum, and a second temperature sensor datum,

control at least one of power to, current through, frequency to, resonance of, inductance of, voltage across, and temperature at a first heating element and a second heating element based on the media type datum, the first temperature sensor datum, and the second temperature sensor datum,

wherein the at least one of power to, current through, frequency to, resonance of, inductance of, voltage across, and temperature at the first heating element is different in magnitude from the at least one of power to, current through, frequency to, resonance of, inductance of, voltage across, and temperature at the second heating element.

6. The controller for a developer fuser of claim 5, wherein the controller is further adapted to

receive at least one of a humidity datum, a media thickness datum, a media moisture content datum, a media temperature datum, and a developer temperature datum, and

control the at least one of power to, current through, frequency to, resonance of, inductance of, voltage across, and temperature at the first heating element and the second heating element based on at least one of the humidity datum, the media thickness datum, the media moisture content datum, the media temperature datum, and the developer temperature datum.

7. An image forming apparatus comprising the controller for the developer fuser of claim 5.

8. A copy machine comprising the controller for the developer fuser of claim 5.

9. A system for fusing developer comprising:

a first resonance circuit comprising a switching element, a power source and a first coil,

a second resonance circuit comprising the switching element, the power source and a second coil, the second coil electrically connected to the first coil at a node,

wherein the switching element is adapted to cause a first reduced frequency through the first resonance circuit, the first reduced frequency depending on a media type and a datum of a first temperature sensor associated with the first coil, and a second reduced frequency through the second resonance circuit, the second reduced frequency depending on the media type and a datum of a second temperature sensor associated with the second coil.

10. The system for fusing developer of claim 9, wherein the first reduced frequency further depends on a datum from at least one of a first temperature sensor associated with the

first coil, a humidity sensor, a media thickness sensor, a media moisture content sensor, a media temperature sensor, and a developer temperature sensor, and the second reduced frequency further depends on a datum from at least one of a second temperature sensor associated with the second coil, the humidity sensor, the media thickness sensor, the media moisture content sensor, the media temperature sensor, and the developer temperature sensor.

11. An image forming apparatus comprising the system for fusing developer of claim 9.

12. A copy machine comprising the system for fusing developer of claim 9.

13. A process for reducing power consumption in a developer fuser comprising:

a control system controlling at least one of power to, current through, frequency to, resonance of, inductance of, voltage across, and temperature at a first heating element and a second heating element to maintain a standby temperature,

the control system receiving a signal to fuse developer,

the control system controlling the at least one of power to, current through, frequency to, resonance of, inductance of, voltage across, and temperature at the first heating element and the second heating element based on a media type datum, a datum of a first temperature sensor associated with the first heating element, and a datum of a second temperature sensor associated with the second heating element, to fuse the developer,

the control system receiving a signal to return to maintain the standby temperature,

the control system controlling the at least one of power to, current through, frequency to, resonance of, inductance of, voltage across, and temperature at the first heating element and the second heating element to maintain the standby temperature.

14. The process for reducing power consumption in a developer fuser of claim 13, wherein the control system controlling step to fuse the developer further comprises the control system controlling the at least one of power to, current through, frequency to, resonance of, inductance of, voltage across, and temperature at the first heating element and the second heating element based on a datum of at least one of a first temperature sensor associated with the first heating element, a second temperature sensor associated with the second heating element, a humidity sensor, a media thickness sensor, a media moisture content sensor, a media temperature sensor, and a developer temperature sensor.